



RESIST

GENETIC SELECTION FOR MORE RESISTANT FARMED FISH

For 4 major species of fish from the French fisheries sector – bass, trout, bream and turbot – RESIST is proposing to introduce a new selection method based on disease resistance. The technique will consist of grouping family pedigree using DNA fingerprinting of families of fish mixed within hatcheries in order to identify those with the greatest resistance. Studies will also examine an innovative system of identification using genetic markers through partial genome sequencing of bass and trout for two diseases. These studies will conclude with the identification of markers associated with disease resistance, which will then be used to complement the DNA fingerprinting approach. In this way, RESIST will enable marketing of new genotypes which will improve resistance of commercial fish varieties. This project has strategic importance for the French fisheries sector and is aimed at securing technological advances in the face of competition from public investment abroad – in the USA and Denmark for trout, Spain and China for turbot and Spain and Greece for bass and bream. At the end of project, its technological advances are expected to consolidate production of selected fish fry and eggs with the creation of new production units.

The RESIST project is also recognized by the Aquimer, Mer Méditerranée, Agrimip Innovation and Qualiméditerranée clusters.

Partners

Companies

Ferme Marine du Douhet, La Brée-les-Bains [\[Project Developer\]](#)
Aquanord-Ichthus, Gravelines
Ferme marine de Campo Moro, Ajaccio, Corse
France Turbot, Tréguier
Les Poissons du Soleil, Balaruc-les-Bains
Pisciculture de Milin Névez
Sources de l'Avance, Pissos
Viviers de Sarrance, Sarrance

Research centers

ANSES (Agence Nationale de Sécurité Sanitaire de l'alimentation, de l'environnement et du travail), Brest
Ifremer, Palavas-les-Flots
INRA, Jouy-en-Josas et Sizun

Other partner

SYSAAF, Syndicat des Sélectionneurs Avicoles et Aquacoles Français, Rennes

Funders

- Fonds Unique Interministériel
- Conseil régional de Bretagne
- Conseil Départemental du Finistère
- Conseil régional d'Aquitaine
- Conseil régional du Languedoc-Roussillon

Labelisation

27/04/2012

Overall budget

3 658 K€